



Safety data sheet

According to Regulation (EU) No 2020/878

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING *

1.1. Product identifier

Product name : SHELL AIR FRESHENER VANILLA
Product code : CRX723, AL61A; 9728126; AL61S

1.2. Relevant identified uses of the substance or mixture and uses advised against

Application : SU21 Consumer product. PC3 Air care products for vehicles. Airfreshener.

1.3. Details of the supplier of the safety data sheet

Supplier : Kemetyl Polska Sp. z o. o.
Al. Jerozolimskie 146
02-305 Warszawa, Poland
Telephone : +48 22 822 5390
E-mail : msds@kemetyl.com
Website : www.kemetyl.pl

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:
PL - Telephone : +48 22 822 5390 (During office hours only)
EMERGENCY TELEPHONE NUMBER (for DOCTORS only):
Poisons Information Center +354 543 22 22 (24/7)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP classification : Eye irritation, category 2. Hazardous to the aquatic environment — Chronic category 3. (1272/2008/EC)
Human health hazards : Causes serious eye irritation. May produce an allergic reaction.
Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives. Combustible.
Environmental hazards : Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements ((EU) 1272/2008):

Hazard pictograms :



Signal word : Warning
H- and P-phrases : H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.
EUH208 Contains ... May produce an allergic reaction. Reference is made to additional labelling for full text of EUH208*.
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P273 Avoid release to the environment.



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P280 eyes only
Wear eye protection.

P501
Dispose of contents/container to an official chemical waste depot.

Labelling of packagings where the contents do not exceed 125 ml and it is technically impossible to list all phrases:

Hazard pictograms :



Signal word : Warning

H- and P-phrases : H412 Harmful to aquatic life with long lasting effects.
EUH208 Contains ... May produce an allergic reaction. Reference is made to additional labelling for full text of EUH208*.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Additional labelling (for all packaging sizes)

: * Contains 3-p-Cumenyl-2-methylpropionaldehyde ; Butanedione . May produce an allergic reaction.

2.3. Other hazards

Other information : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

| Substance name | Concentration (w/w) (%) | CAS nr. | EC number | Remark | REACH nr. |
|--|-------------------------|------------|-----------|--------|------------------|
| 2,2,4,6,6-Pentamethylheptane | 5 - < 10 | 13475-82-6 | 236-757-0 | | 01-2119490725-29 |
| 3-Ethoxy-4-hydroxybenzaldehyde | 5 - < 10 | 121-32-4 | 204-464-7 | | 01-2119958961-24 |
| Vanillin | 1 - < 5 | 121-33-5 | 204-465-2 | | |
| Benzyl benzoate | 2,5 - < 5 | 120-51-4 | 204-402-9 | | 01-2119976371-33 |
| 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran | 0,1 - < 1 | 1222-05-5 | 214-946-9 | | 01-2119488227-29 |
| 3-p-Cumenyl-2-methylpropionaldehyde | 0,1 - < 1 | 103-95-7 | 203-161-7 | | 01-2119970582-32 |
| Butanedione | 0,1 - < 1 | 431-03-8 | 207-069-8 | | |
| Reaction mass of: (E)-oxacyclohexadec-12-en-2-one; (E)-oxacyclohexadec-13-en-2-one | 0,1 - < 1 | 34902-57-3 | 422-320-3 | | 01-0000016883-62 |

| Substance name | Hazard Class | H-phrases | Pictograms | |
|--|--|------------------|--------------|-----------------|
| 2,2,4,6,6-Pentamethylheptane | Flam. Liq. 3; Asp. Tox. 1; Aquatic Chronic 4 | H226; H304; H413 | GHS02; GHS08 | |
| 3-Ethoxy-4-hydroxybenzaldehyde | Eye Irrit. 2 | H319 | GHS07 | |
| Vanillin | Eye Irrit. 2 | H319 | GHS07 | |
| Benzyl benzoate | Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 2 | H302; H400; H411 | GHS07; GHS09 | M (acute) = 1 |
| 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran | Aquatic Acute 1; Aquatic Chronic 1 | H400; H410 | GHS09 | M (chronic) = 1 |

Product name : Shell Air Freshener Vanilla

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| | | | | |
|--|--|--|-----------------------------------|----------------------------------|
| 3-p-Cumenyl-2-methylpropionaldehyde | Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 3 | H315; H317; H412 | GHS07 | |
| Butanedione | Flam. Liq. 2; Acute Tox. 4; Skin Irrit. 2; Skin Sens. 1; Eye Dam. 1; Acute Tox. 3; STOT RE 2 | H225; H302; H315; H317; H318; H331; H373 | GHS02; GHS05; GHS06; GHS07; GHS08 | |
| Reaction mass of: (E)-oxacyclohexadec-12-en-2-one; (E)-oxacyclohexadec-13-en-2-one | Aquatic Acute 1; Aquatic Chronic 1 | H400; H410 | GHS09 | M (acute) = 1 M (chronic) = 1 |

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

SECTION 4 FIRST-AID MEASURES

4.1. Description of first aid measures

First aid measures

- Inhalation : Not applicable under normal conditions of use. Consult a doctor if victim feels unwell.
- Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation occurs.
- Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor.
- Ingestion : Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth to an unconscious person. Consult a doctor if victim feels unwell.

4.2. Most important symptoms and effects, both acute and delayed

Effects and symptoms

- Inhalation : No specific effects and/or symptoms are known.
- Skin contact : May produce an allergic reaction. May cause dry skin.
- Eye contact : Irritant. May cause redness and pain.
- Ingestion : May cause a feeling of sickness, vomiting and diarrhoea.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians : None known.

SECTION 5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

- Suitable : Carbondioxide (CO₂). Foam. Dry chemical. Water fog.
- Not suitable : Water jet. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

- Special exposure hazards : None known.
- Hazardous thermal decomposition and combustion products : Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

- Special protective equipment for fire-fighters : Use adequate respiratory equipment in case of insufficient ventilation.



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SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material.

6.2. Environmental precautions

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. In case of large spills: contain with dike. Waste product should not be allowed to contaminate soil or water.

Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Dispose at an authorised waste collection point. Wash away remainder with plenty of water and soap.

6.4. Reference to other sections

Reference to other sections : See also section 8.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Keep away from sources of ignition — No smoking. Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep frost-free, in a cool, dry and well-ventilated place. Keep away from oxidizing agents.

Recommended packaging : Keep only in the original container.

Non recommended packaging : None known.

7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Workplace exposure limits (mg/m³):

| Chemical name | Country | TWA 8 hour (mg/m ³) | STEL 15 min (mg/m ³) | Comments | Source |
|---------------|---------|---------------------------------|----------------------------------|----------|-----------------------|
| Butanedione | EC | 0,07 | 0,36 | - | Directive EU 2017/164 |

Derived no-effect level (DNEL) for workers:



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| Chemical name | Route of exposure | DNEL, short-term | | DNEL, long-term | |
|---|-------------------|------------------|-----------------|----------------------|--------------------|
| | | Local effect | Systemic effect | Local effect | Systemic effect |
| Benzyl benzoate 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran | Inhalation | | 102 mg/m3 | | 5,1 mg/m3 |
| | Dermal | | | | 2,6 mg/kg bw/day |
| 3-p-Cumenyl-2-methylpropionaldehyde | Dermal | | | | 28,85 mg/kg bw/day |
| | Inhalation | | | | 5,29 mg/m3 |
| | Inhalation | | | | 5,83 mg/m3 |
| | Dermal | | | 0,00743 mg/kg bw/day | 1,67 mg/kg bw/day |

Derived no-effect level (DNEL) for consumers:

| Chemical name | Route of exposure | DNEL, short-term | | DNEL, long-term | |
|--|-------------------|------------------|-----------------|----------------------|--------------------|
| | | Local effect | Systemic effect | Local effect | Systemic effect |
| Benzyl benzoate | Inhalation | | 25 mg/m3 | | 1,25 mg/m3 |
| | Dermal | | | | 1,3 mg/kg bw/day |
| 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran | Oral | | 78 mg/kg bw | | 0,4 mg/kg bw/day |
| | Dermal | | | | 14,43 mg/kg bw/day |
| 3-p-Cumenyl-2-methylpropionaldehyde | Inhalation | | | | 1,3 mg/m3 |
| | Oral | | | | 0,75 mg/kg bw/day |
| | Inhalation | | | | 1,45 mg/m3 |
| | Dermal | | | 0,00372 mg/kg bw/day | 0,83 mg/kg bw/day |
| | Oral | | | | 0,83 mg/kg bw/day |

Predicted no-effect concentration (PNEC):

| Chemical name | Route of exposure | Fresh water | Marine water | |
|--|--------------------|--------------|--------------|-----------------|
| 3-Ethoxy-4-hydroxybenzaldehyde | Water | 0,118 mg/l | 0,0118 mg/l | |
| | Sediment | 15 mg/kg | 1,5 mg/kg | |
| | STP | | | 10 mg/l |
| | Soil | | | 2,923 mg/kg |
| Vanillin | Water | 0,118 mg/l | 0,0118 mg/l | |
| | Sediment | 58,22 mg/kg | 5,822 mg/kg | |
| | STP | | | 10 mg/l |
| | Soil | | | 11,54 mg/kg |
| Benzyl benzoate | Water | 0,017 mg/l | 0,002 mg/l | |
| | Sediment | 10,66 mg/kg | 1,07 mg/kg | |
| | STP | | | 100 mg/l |
| | Soil | | | 2,12 mg/kg |
| 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran | Water | 0,0044 mg/l | 0,0004 mg/l | |
| | Sediment | 2 mg/kg | 0,394 mg/kg | |
| | Intermittent water | | | 0,047 mg/l |
| | STP | | | 1 mg/l |
| | Soil | | | 0,31 mg/kg |
| | Oral | | | 3,3 mg/kg food |
| 3-p-Cumenyl-2-methylpropionaldehyde | Water | 0,00109 mg/l | 0,00011 mg/l | |
| | Sediment | 0,126 mg/kg | 0,013 mg/kg | |
| | Intermittent water | | | 0,01092 mg/l |
| | STP | | | 1 mg/l |
| | Soil | | | 0,025 mg/kg |
| | Oral | | | 33.3 mg/kg food |



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8.2. Exposure controls

Engineering measures : Comply with standard precautionary measures for working with chemicals.

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

Body protection : Use of specific protective industrial clothing is not required under normal conditions of use. In case of large scale exposure wear suitable protective clothing, overalls or suit, and similar boots. Suitable material: laminated film. Indication of permeation breakthrough time: not known.

Respiratory protection : Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.

Hand protection : Under normal conditions of use specific gloves are not required. Wear appropriate gloves in case of frequent or prolonged use and in case of large scale exposure. Suitable material: laminated film. ± 0,5 mm. Indication of permeation breakthrough time: not known.

Eye protection : Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | | |
|---|---------------------|--|
| Physical state | : Liquid. | Impregnated material. |
| Colour | : Light yellow. | |
| Odour | : Perfumed. | |
| Odour threshold | : Not known. | |
| pH | : Not applicable. | Waterfree product. |
| Solubility in water | : Not soluble. | |
| Partition coefficient (n-octanol/water) | : Not known. | Not measured. Not relevant for mixtures. |
| Flash point | : > 60 °C | Closed cup. |
| Flammability (solid, gas) | : Not applicable. | Liquid. See flashpoint. |
| Auto ignition temperature | : > 200 °C | |
| Boiling point/boiling range | : > 100 °C | |
| Melting point/melting range | : Not known. | |
| Explosive properties | : Not an explosive. | |
| Explosion limits (% in air) | : Not known. | |
| Oxidising properties | : Not applicable. | Does not contain oxidizing substances. |
| Decomposition temperature | : Not applicable. | |
| Viscosity (20°C) | : Not known. | |
| Viscosity (40°C) | : Not relevant. | The product contains < 10% substances having an aspiration hazard. |
| Vapour pressure (20°C) | : Not known. | |
| Relative vapour density | : > 1 | (air = 1) |
| Relative density (20°C) | : 1 g/ml | |
| Particle characteristics | : Not applicable. | Liquid. |

9.2. Other information

Other information : Not relevant.

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

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Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological research has been carried out on this product.

Inhalation

- Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 12 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met. Does not contain carcinogenic substances.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.

Skin contact

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 5000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Slight irritation possible. Not classified - based on available data, the classification criteria are not met.
- Sensitisation : May produce an allergic reaction.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.

Eye contact

- Corrosion/irritation : Irritant.

Ingestion

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Aspiration : Contains a substance/substances with an aspiration hazard. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : May cause a feeling of sickness, vomiting and diarrhoea.
- Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.



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- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.
- Reprotoxicity : Development: Not expected to be reprotoxic. Development: Not classified - Based on available data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the classification criteria are not met.

Toxicological information:

| Chemical name | Property | | Method | Test animal | |
|-------------------------------------|-------------------------|------------------------------|--------------------------|------------------------|--------|
| 3-Ethoxy-4-hydroxybenzaldehyde | Skin irritation | Mildly irritant | ----- | Human | |
| | LD50 (oral) | > 3160 mg/kg bw | OECD 401 | Rat | |
| | LD50 (dermal) | > 2000 mg/kg bw | OECD 402 | Rat | |
| | Skin irritation | Slightly irritant | OECD 404 | Rabbit | |
| | Skin sensitisation | Not sensitizing | OECD 429 | Mouse | |
| | NOAEL (oral) | 500 mg/kg bw/d | | Rat | |
| | Genotoxicity - in vitro | Not genotoxic | | | |
| | Mutagenicity | Negative | OECD 471 | Salmonella typhimurium | |
| | NOAEL (development) | Not teratogenic | Read across | | |
| | - estimate | | | | |
| | Eye irritation | Irritant | OECD 405 | Rabbit | |
| | Genotoxicity - in vivo | Negative | OECD 474 | Mouse | |
| | Vanillin | NOEL (carcinogenicity, oral) | Not carcinogenic | ----- | Rat |
| LD50 (oral) | | > 3500 mg/kg bw | ----- | Rat | |
| LD50 (dermal) | | > 5010 mg/kg bw | | Rabbit | |
| Skin sensitisation | | Sensitizing. | | Guinea pig | |
| Skin irritation | | Non-irritant | ----- | Rabbit | |
| Eye irritation | | Slightly irritant | ----- | Rabbit | |
| NOEL (carcinogenicity, oral) | | Not carcinogenic | ----- | Rat | |
| Mutagenicity | | Negative | OECD 471 | Salmonella typhimurium | |
| NOEL (oral) | | 2500 mg/kg bw/d | | Rat | |
| NOAEL (development, oral) | | > 500 mg/kg bw/d | ----- | Rat | |
| Genotoxicity - in vitro | | Not genotoxic | OECD 473 | | |
| NOAEL (oral) | | > 650 mg/kg bw/d | OECD 408 | Rat | |
| 3-p-Cumenyl-2-methylpropionaldehyde | | Skin sensitisation | 5575 ug/cm ² | OECD 429 | Mouse |
| | NOAEL (oral) | 300 mg/kg bw/d | | Rabbit | |
| | Skin irritation | Slightly irritant | | Rabbit | |
| | LD50 (oral) | 3810 mg/kg bw | ----- | Rat | |
| | NOAEL (fertility, oral) | 25 mg/kg bw/d | OECD 415 | Rat | |
| | Mutagenicity | Negative | OECD 471 | Salmonella typhimurium | |
| | Genotoxicity - in vivo | > 2000 mg/kg bw/d | Read across | Mouse | |
| | Eye irritation | Non-irritant | | Rabbit | |
| | LD50 (dermal) | > 5000 mg/kg bw | ----- | Rat | |
| | Butanedione | LC50 (inhalation) | > 2250 mg/m ³ | | Rat |
| | | Skin irritation | Moderately irritant | OECD 404 | Rabbit |
| | | LD50 (oral) | 1580 mg/kg bw | ----- | Rat |
| | | LD50 (dermal) | > 5000 mg/kg bw | ----- | Rabbit |
| NOAEL (development, oral) | | Not teratogenic | | Mouse | |
| Mutagenicity | | Mutagenic | | Salmonella typhimurium | |
| Genotoxicity - in vitro | | Not genotoxic | OECD 475 | | |
| NOAEL (oral) | > 90 mg/kg bw/d | | Rat | | |

11.2. Information on other hazards



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Endocrine disrupting properties : Not applicable.
Other information : Not applicable.

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Harmful to aquatic organisms. Calculated LC50 (fish): 33 mg/l. Calculated EC50 (waterflea): 23 mg/l. Contains 0 % of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

Persistence – degradability : May cause long-term adverse effects in the aquatic environment.

12.3. Bioaccumulative potential

Bioaccumulative potential : Contains bioaccumulating substances.

12.4. Mobility in soil

Mobility : Adsorbs to soil and has low mobility.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

12.6. Endocrine disrupting properties

Endocrine disrupting properties : Not applicable.

12.7. Other adverse effects

Other adverse effects : Not applicable.

Ecological information:

| Chemical name | Property | | Method | Test animal |
|----------------------------|--|-------------------------------------|------------|--------------------------------|
| Benzyl benzoate | IC50 (algae) | 0,475 mg/l | OECD 201 | Pseudokirchnerella subcapitata |
| | LC0 (fish) | 1,9 mg/l | OECD 203 | Brachydanio rerio |
| | LC100 (fish) | 2,84 mg/l | OECD 203 | Brachydanio rerio |
| | Ultimate aerobic biodegradation (%) | 94 % | OECD 301 F | |
| | LC50 (fish) | 2,32 mg/l | OECD 203 | Brachydanio rerio |
| | EC50 (waterflea) | 3,09 mg/l | OECD 202 | Daphnia magna |
| | NOEC (waterflea) - chronic | 0,258 mg/l.d | OECD 211 | Daphnia magna |
| | Log P(ow) | 3,97 | | |
| | BCF | 24 | | |
| | 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran | Ultimate aerobic biodegradation (%) | 2 % | OECD 301 B |
| IC50 (algae) | | > 0,85 mg/l | OECD 201 | Pseudokirchnerella subcapitata |
| NOEC (waterflea) - chronic | | 0,111 mg/l.d | OECD 202 | Daphnia magna |
| LC50 (fish) | | 1,36 mg/l | OECD 204 | Lepomis macrochirus |
| NOEC (fish) | | 0,068 mg/l.d | OECD 210 | Pimephales promelas |



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| | | | | |
|--|------------------|-----------|----------|---------------------|
| Reaction mass of: (E)-oxacyclohexadec-12-en-2-one; (E)-oxacyclohexadec-13-en-2-one | EC50 (waterflea) | 0,47 mg/l | ----- | ----- |
| | Log P(ow) | 5,9 | | |
| | BCF | 1584 | | |
| | NOEC (fish) | 0,52 mg/l | OECD 203 | Oncorhynchus mykiss |
| | LC50 (fish) | 2,0 mg/l | OECD 203 | Oncorhynchus mykiss |
| | EC50 (waterflea) | 0,48 mg/l | OECD 202 | Daphnia magna |
| | Log P(ow) | 5,02 | | |

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

- Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues, impregnated wipes and non-empty pack as hazardous waste.
- Additional warning : None.
- Waste water discharge : Do not dispose of into the environment, drains, sewers or water courses.
- European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.
- Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION

14.1. UN number or ID number

UN nr. : None.

14.2. UN proper shipping name

Transport name : Not regulated.

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : This product is not classified according to ADR/RID/ADN.

IMDG (sea)

Class : This product is not classified according to IMDG.

Marine pollutant : No

IATA (air)

Class : This product is not classified according to IATA.

14.6. Special precautions for user

Other information : Country specific variations may apply.

14.7. Maritime transport in bulk according to IMO instruments

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

SECTION 15 REGULATORY INFORMATION

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Community regulations : Regulation (EU) No 2020/878 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations. Directive 2008/98/EC (waste).

15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

SECTION 16 OTHER INFORMATION

16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2020/878 dated 18 June 2020 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

| | |
|-----------|---|
| ADR | : European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | : Acute Toxicity Estimate |
| CLP | : Classification, Labeling & Packaging |
| CMR | : Carcinogenic, Mutagenic or toxic for Reproduction |
| EEC | : European Economic Community |
| GHS | : Globally Harmonized System of Classification and Labelling of Chemicals |
| IATA | : International Air Transport Association |
| IBC code | : International Bulk Chemical Code |
| IMDG | : International Maritime Dangerous Goods Code |
| LD50/LC50 | : Lethal Dose/Concentration for 50% of a population |
| MAC | : Maximum Allowable Concentration |
| MARPOL | : International Convention for the Prevention of Pollution From Ships |
| NO(A)EL | : No Observed (Adverse) Effect Level |
| OECD | : Organisation for Economic Co-operation and Development |
| PBT | : Persistent, Bioaccumulative and Toxic |
| PC | : Chemical product category |
| PT | : Product type |
| REACH | : Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | : Regulations concerning the International Carriage of Dangerous Goods by Rail |
| STP | : Sewage Treatment Plant |
| SU | : Sector of Use |
| TWA/STEL | : Time-Weighted Average/Short Term Exposure Limit |
| UN | : United Nations |
| UFI | : Unique formula identifier |
| VOC | : Volatile Organic Compounds |
| vPvB | : Very Persistent and Very Bioaccumulative |

Key data used to compile the Safety Data Sheet are from, but not limited to, one or more sources of information e.g. toxicological data from material suppliers, CONCAWE, IFRA, CESIO, Regulation EG 1272/2008, etc.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

| | |
|-------------------|-----------------------|
| Eye Irrit. 2 | : Calculation method. |
| Aquatic Chronic 3 | : Calculation method. |



Kemetyl

Safety data sheet

According to Regulation (EU) No 2020/878

Full text of hazard classes mentioned in section 3:

| | |
|--------------------|---|
| Flam. Liq. 2 | : Flammable liquid, category 2. |
| Flam. Liq. 3 | : Flammable liquid, category 3. |
| Acute Tox. 3 | : Acute toxicity, category 3. |
| Acute Tox. 4 | : Acute toxicity, category 4. |
| Skin Irrit. 2 | : Skin irritation, category 2. |
| Eye Dam. 1 | : Serious eye damage, category 1. |
| Eye Irrit. 2 | : Eye irritation, category 2. |
| Skin Sens. 1/1A/1B | : Skin sensitization, category 1/1A/1B. |
| STOT RE 2 | : Specific target organ toxicity — repeated exposure, category 2. |
| Asp. Tox. 1 | : Aspiration hazard, category 1. |
| Aquatic Chronic 1 | : Hazardous to the aquatic environment — Chronic category 1. |
| Aquatic Chronic 2 | : Hazardous to the aquatic environment — Chronic category 2. |
| Aquatic Chronic 3 | : Hazardous to the aquatic environment — Chronic category 3. |
| Aquatic Chronic 4 | : Hazardous to the aquatic environment — Chronic category 4. |
| Aquatic Acute 1 | : Hazardous to the aquatic environment — Acute category 1. |

Full text of H-phrases mentioned in section 3:

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H331 | Toxic if inhaled. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Advice on any training appropriate for workers: none.

Number format : ", " used as decimal separator.

End of safety data sheet.

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